

**MISSOURI**  
DEPARTMENT OF  
NATURAL RESOURCES

## Total Maximum Daily Load Information Sheet

### Tributary to Little Muddy Creek

**Water Body ID: 3490**

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#### Water Body Segment at a Glance:

**County:** Pettis  
**Nearby City:** Sedalia  
**Length:** 1 mile  
**Pollutants:** Chloride  
**Source:** Tyson Foods, Inc.



State map showing location of watershed

#### Schedule for TMDL development:

TMDL development schedules are subject to change.

The most current schedule for TMDL development is available on the department's website at

<http://dnr.mo.gov/env/wpp/tmdl/wpc-tmdl-progress.htm>

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#### Description of the Problem

A water body is considered impaired when it fails to meet applicable water quality standards. Water quality standards consist of designated uses, water quality criteria, an antidegradation policy and implementation procedures. Tributary to Little Muddy Creek is impaired due to exceedances of state water quality criteria that protect aquatic life.

#### Designated uses of Tributary to Little Muddy Creek\*

- Warm Water Habitat (WWH)
- Whole Body Contact Recreation Category B (WBC-B)
- Secondary Contact Recreation (SCR)
- Human Health Protection (HHP)
- Irrigation (IRR)
- Livestock and Wildlife Protection (LWP)

\*In addition to these specific uses, all waters of the state are protected by the general water quality criteria that are specified in the state's Water Quality Standards at 10 CSR 20-7.031(4).

#### Uses that are impaired

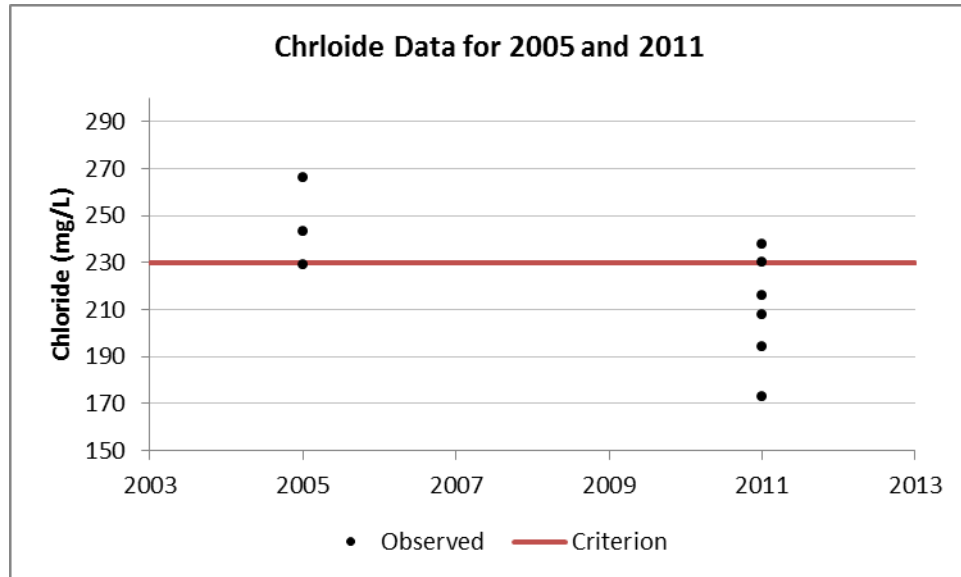
- Warm Water Habitat (WWH)

#### Criteria that apply

- Numeric criteria for chloride are found in 10 CSR 20-7.031 Table A and are dependent upon water hardness and sulfate concentrations. However, these criteria were disapproved by the U.S. Environmental Protection Agency. Therefore, the state's previously approved chronic criterion of 230 milligrams per liter (mg/L) continues to be used for water body assessment.

### Assessment and water quality data

The department judges a stream to be impaired by chloride when the criterion is exceeded more than once during stable flow conditions in any of the last three years for which data is available. Chloride data for the Tributary to Little Muddy Creek is available for 2005 and 2011. The chronic criterion was exceeded twice in 2005 and once in 2011.



### TMDL for Tributary to Little Muddy Creek

The Tributary to Little Muddy Creek TMDL will calculate the maximum amount of each listed pollutant that the stream can receive and still meet water quality standards. The TMDL will also identify all potential or suspected pollutant sources in the watershed and distribute the allowable pollutant loads among those various sources. When developed, the Tributary to Little Muddy Creek TMDL will use the most current and available data. For this reason, the final TMDL may present information that differs from that contained in this information sheet.

### For more information call or write:

Department of Natural Resources  
Water Protection Program – Watershed Protection Section  
P.O. Box 176  
Jefferson City, MO 65102-0176  
Ph: 1-800-361-4827 or 573-751-1300, Fax: 573-526-6802  
Email: [TMDL@dnr.mo.gov](mailto:TMDL@dnr.mo.gov)  
Program Home Page: [dnr.mo.gov/env/wpp/index.html](http://dnr.mo.gov/env/wpp/index.html)

## Map of the Tributary to Little Muddy Creek watershed

